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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<i>Complete if Known</i>		
			Application Number		
			Filing Date		
			First Named Inventor		
			Group Art Unit		
			Examiner Name		
Sheet	1	of	9	Attorney Docket Number	IMMR-046/02US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code <sup>2</sup> (if known)		
XW		6,243,078		Rosenberg	06/2001
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<sup>1</sup> Unique citation designation number.

<sup>2</sup> See attached Kinds of U.S. Patent Documents.

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Office <sup>1</sup>	Number <sup>2</sup>	Kind Code <sup>3</sup> (if known)		
		EP	0 626 634	A2	Yoshiki et al.	11/1994
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<sup>1</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

<sup>2</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>3</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

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	<del>Adelman, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, archived 3/13/00</del>
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	<del>Rejoz et al., "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM IFToMM, Sep. 8-12, 1981</del>
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Examiner Signature	06/25/2006	Date Considered	06/25/2006
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Substitute for form 1449A/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	
		Filing Date	Herewith
		First Named Inventor	Erik SHAHOIAN
		Group Art Unit	
		Examiner Name	
Sheet	8	of	9
		Attorney Docket Number	IMMR-046/02US

	Minsky, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force Feedback Display," Ph.D. Dissertation, MIT, June 1993, archived 7/6/95	
	Jacobson et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," <i>Intervention/ROV '91 Conference &amp; Exposition</i> , Hollywood, Florida, May 21-23, 1991	
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	IDM Technical Disclosure Bulletin, "Mouse Ball Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990	
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	Hove, "A Force Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," <i>Proceedings of the 1992 IEEE International Conference on Robotics and Automation</i> , Nice, France, May 1992	
	Eberhardt et al., "OMAR - A Haptic display for speech perception by deaf and deaf-blind individuals," <i>IEEE Virtual Reality Annual International Symposium</i> , Seattle, WA, Sep. 18-22, 1993	
	Rabinowitz et al., "Multidimensional tactile displays: Identification of vibratory intensity, frequency, and contact area," <i>Journal of The Acoustical Society of America</i> , Vol. 83, No. 4, October 1987	
	Bejczy et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," <i>International Computer Technology Conference-The American Society of Mechanical Engineers</i> , San Francisco, CA, August 12-13, 1980	
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	OGANNELL, "Taking a Joystick Ride," <i>Computer Currents</i> , Boston Edition, Vol. 9, No. 11, November 1994	
	"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25502," Safe Flight Instrument Corporation, Revised 28 January 2002 (3 pages)	
	"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-26603," Safe Flight Instrument Corporation, Revised 15 July 1980 (23 pages)	
	Adelman, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989, archived 2/12/00	
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Examiner Signature	/Xiao Wu/	Date Considered	06/25/2006
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		Application Number			
		Filing Date	Herewith		
		First Named Inventor	Erik SHAHOIAN		
		Group Art Unit			
		Examiner Name			
Sheet	9	of	9	Attorney Docket Number	IMMR-046/02US

	<del>Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980</del>	
	<del>Brizy et al, "A Laboratory Breadboard System For Dual Arm Teleoperation," SOAR-89 Workshop, JSC, Houston, TX, July 25-27, 1989</del>	
	<del>Ouhyoung et al, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995</del>	
	<del>Marcus, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8-11, 1994</del>	
	<del>Dejoux, et al, "Universal Computer Control System (UGCS) For Space Telerobots," CH2413-3/87/0000/0310501.00-1987-IEEE, 1987</del>	
	<del>SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994</del>	
	<del>"Component Maintenance Manual With Illustrated Parts List, Coaxial Control Shaker Part No. C-25500," Safe Flight Instrument Corporation, Revised 28 January 2000 (3 pages)</del>	
	<del>"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25500," Safe Flight Instrument Corporation, Revised 16 July 1980 (33 pages)</del>	

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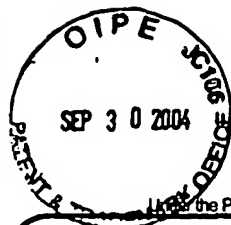
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<sup>1</sup> Unique citation designation number.

<sup>2</sup> Applicant is to place a check mark here if English language Translation attached.

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STATEMENT BY APPLICANT**

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Sheet **1** of **3****Complete if Known**

Application Number	10/782,939
Filing Date	February 23, 2004
First Named Inventor	Erik J. Shaholian
Art Unit	2674
Examiner Name	Unassigned
Attorney Docket Number	IMMR046/02US

U.S. PATENT DOCUMENTS					
Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
XW ↓		6,422,941	7/23/2002	Thomer et al.	
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		2,972,140	2/14/1961	Hirsch	

Examiner  
Signature

/Xiao Wu/

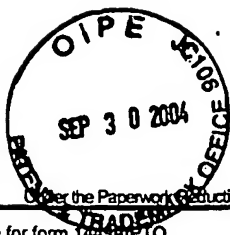
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Sheet **2** of **3****Complete if Known**

Application Number	10782,939
Filing Date	February 23, 2004
First Named Inventor	Erik J. Shahoian
Art Unit	2674
Examiner Name	Unassigned
Attorney Docket Number	IMMR046/02US

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
		<del>PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," Master of Science Thesis, MIT, Aug. 1990, archived Nov. 6, 1990.</del>
		<del>GALLER, "Design of a Force Feedback Touch Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, May 1999, archived June 29, 1999.</del>
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		<del>NUMSTAKALNIC et al., "Illusion Mirrors: The Art and Science of Virtual Reality," ISBN 0-028151-82-7, pp. 120-180, 1999.</del>
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		<del>"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement to Logitech Mouse Technical Reference and Programming Guide, 4/5/1994.</del>
		<del>GUH-YOUNG et al., "The Development of a Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 84-84 August 1995.</del>
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		<del>YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proceedings of the 1992 IEEE/RSJ International Conference on Intelligent Robots and Systems, Raleigh, NC, July 7-10, 1992.</del>

Examiner  
Signature

/Xiao Wu/

Date  
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Sheet **3** of **3****Complete if Known**

Application Number	<b>10/782,939</b>
Filing Date	<b>February 23, 2004</b>
First Named Inventor	<b>Erik J. Shahoian</b>
Art Unit	<b>2674</b>
Examiner Name	<b>Unassigned</b>
Attorney Docket Number	<b>IMMR046/02US</b>

**OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS**

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		<del>NOLL, "Man-Machine Teatle," S/O Journal, July/August 1972 Issue.</del>
		<del>ROSENBERG, "Virtual Futures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994.</del>

Examiner Signature	/Xiao Wu/	Date Considered	06/25/2006
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